

Atomic Search - Canvas API called and data stored

This document describes the Canvas data that Atomic Search stores and the APIs it calls.

In order to provide the Atomic Search service, we download content from Canvas and store it in our indexes. After we index the content, we delete the downloaded copy in its original format. When a client terminates their Atomic Jolt subscription, we delete their data from our database and indexes.

Canvas Data

Atomic Search stores the following Canvas data:

Accounts	<p>Id - Scope items to to the sub-accounts they live under during indexing and searching.</p> <p>Name - Display the sub-account that a course is in.</p> <p>Parent account ids - Scope items to to the sub-accounts they live under during indexing and searching.</p>
Assignments	<p>Id - Link and refer to the assignment.</p> <p>Title - Search against and display in search results.</p> <p>Description - Search against and display in search results.</p> <p>Content - Search against and display in search results.</p> <p>Published status - Determine if students can search.</p> <p>Release Date - Determine if students can search.</p> <p>Due At Date - Determine if students can search.</p>
Courses	<p>Id - Scope items to to the courses they live in during indexing and searching.</p> <p>Name - Display which course search results lives in when a multi-course search is performed.</p> <p>Short name - Display which course search results lives in when a multi-course search is performed.</p> <p>Start date, end date - Adjust item relevance based on the course recency.</p>

	Term name - Display the term of the course that an item is in.
Discussions (and Announcements)	<p>Id - Link and refer to the discussion.</p> <p>Title - Search against and display in search results.</p> <p>Message - Search against and display in search results.</p> <p>Published status - Determine if students can search.</p> <p>Created at - Nothing currently.</p>
Files	<p>Id - Link and refer to the file.</p> <p>Name - Search against and display in search results.</p> <p>Mime Type - Determine how to index.</p> <p>Body - Search against and display in search results.</p> <p>Visibility status - Determine if students can search.</p>
Modules	<p>Id - To be able to identify which items belong to which modules,.</p> <p>Published status - Determine whether or not students can search items.</p>
Module items	<p>Id - Generate links to module items.</p> <p>Module id - Know which module an item belongs to. Use to determine whether or not a module item should be searchable by students.</p> <p>Title - Search against and display in search results.</p> <p>Published status - Determine whether or not students can search items.</p> <p>Position - Determine whether or not students can search items based on module item dependencies.</p> <p>Item type - Display item content type icon. Determine how to link to.</p> <p>Unlock date - Determine whether or not students can search items based on module item release date.</p>
Pages and syllabuses	<p>Id - Link and refer to the page.</p> <p>Title - Search against and display in search results.</p>

	<p>Body - Search against and display in search results.</p> <p>Url - Link to.</p> <p>Published status - Determine if students can search.</p> <p>Created at - Not currently used.</p>
Users	<p>Id - Used as a way to identify users when specifying user roles.</p> <p>Roles - Ids and role types for courses and sub-accounts that the user has a relationship with. Use do determine which courses a user can search.</p>
Quizzes	<p>Id - Link and refer to the quiz.</p> <p>Question names - Search against (teacher and admins only).</p>

For every item type, Atomic Search stores the course and account that the item belongs to. It uses this to specify the scope of the item during indexing.

User Data

Atomic Search stores the user data described in this table:

Searches	<p>Text - search text that a user entered</p> <p>Context (course or account)</p> <p># of results found by their search</p>
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We do not store the id or any other personally identifying information about the search. We are not currently using that data, but are gathering it in order to implement the following features:

- Provide reports to teachers and admins about the searches being performed.
- Tune search algorithms to improve the relevancy of results.

Canvas APIs Called by Atomic Search

Atomic Search calls the following Canvas APIs in order to be able to list the courses in a Canvas instance:

- List accounts
https://canvas.instructure.com/doc/api/all_resources.html#method.accounts.index
- Get sub-accounts of an account
https://canvas.instructure.com/doc/api/all_resources.html#method.accounts.sub_account_s

- List active courses in an account
https://canvas.instructure.com/doc/api/all_resources.html#method.accounts.courses_api
- Get a single course
https://canvas.instructure.com/doc/api/all_resources.html#method.courses.show

Atomic Search calls the following Canvas APIs in order to be able to retrieve course content for indexing:

- List assignments
https://canvas.instructure.com/doc/api/all_resources.html#method.assignments_api.index
- Get a single assignment
https://canvas.instructure.com/doc/api/all_resources.html#method.assignments_api.show
- List discussion topics
https://canvas.instructure.com/doc/api/all_resources.html#method.discussion_topics.index
- Get a single topic
https://canvas.instructure.com/doc/api/all_resources.html#method.discussion_topics_api.show
- List files
https://canvas.instructure.com/doc/api/all_resources.html#method.files_api.index
- Get file
https://canvas.instructure.com/doc/api/all_resources.html#method.files_api.show
- List modules
https://canvas.instructure.com/doc/api/all_resources.html#method.context_modules_api.index
- List module items
https://canvas.instructure.com/doc/api/all_resources.html#method.context_module_items_api.index
- List pages
https://canvas.instructure.com/doc/api/all_resources.html#method.wiki_pages_api.index
- Show page
https://canvas.instructure.com/doc/api/all_resources.html#method.wiki_pages_api.show
- List questions in a quiz or a submission
https://canvas.instructure.com/doc/api/all_resources.html#method.quizzes/quiz_questions.index
- List quizzes in a course
https://canvas.instructure.com/doc/api/all_resources.html#method.quizzes/quizzes_api.index
- Get a single quiz
https://canvas.instructure.com/doc/api/all_resources.html#method.quizzes/quizzes_api.show